

***IN THE UNITED STATES PATENT AND TRADEMARK OFFICE***

Applicant: Michael Houghton, et al.  
Title: NANBV Diagnostics and Vaccines  
Appl. No.: 08/441,443  
Filing Date: May 15, 1995  
Examiner: M. Zeman  
Art Unit: 1631  
Confirmation Number: 1917  
Number:

**POWER OF ATTORNEY OR**  
**AUTHORIZATION OF AGENT BY ASSIGNEE**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Novartis Vaccines and Diagnostics, Inc., a corporation duly organized and existing under the laws of the State of Delaware, and having its principal place of business at 350 Massachusetts Ave., Cambridge, MA, 02139, is the Assignee and owner of the entire right, title, and interest in and to the above-identified patent application. A Statement Under 37 CFR 3.73(b) is attached.

Assignee hereby appoints the registered attorneys and agents at Customer Number:

**27476**

as well as the following registered attorneys and agents:

<b>Otis Littlefield</b>	<b>(Reg. No. 48,751)</b>
<b>Michael Ward</b>	<b>(Reg. No. 38,651)</b>
<b>Patricia Tsao</b>	<b>(Reg. No. 50,713)</b>
<b>Peter J. Vim</b>	<b>(Reg. No. 44,417)</b>
<b>Christine A. Lekutis</b>	<b>(Reg. No. 51,934)</b>
<b>Katherine D. Lee</b>	<b>(Reg. No. 44,865)</b>
<b>Gladys H. Monroy</b>	<b>(Reg. No. 32,430)</b>

as its principal attorneys to have full power to prosecute this application and any continuations, divisions, reissues, and reexaminations thereof, to receive the patent, to transact all business in the United States Patent and Trademark Office connected therewith, and to have full power of substitution, association, and revocation, including the power to revoke the power of attorney of any associate attorney.

Executed this 17 day of April, 2009.

NOVARTIS VACCINES AND DIAGNOSTICS, INC.

By:

  
(Signature)

---

Mark Seka

---

Assistant Secretary